

Title (en)

TRANSGENE ASSAY USING STABLE AGROBACTERIUM RHIZOGENES TRANSFORMATION

Title (de)

NACHWEISMETHODE FÜR TRANSGENE UNTER VERWENDUNG VON STABILER TRANSFORMATION MITTELS AGROBAKTERIUM TUMEFACIENS

Title (fr)

DOSAGE TRANSGENIQUE UTILISANT LA TRANSFORMATION DE LA BACTERIE STABLE AGROBACTERIUM RHIZOGENES

Publication

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Application

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Abstract (en)

[origin: WO0012736A2] The invention describes a new method to isolate disease resistance genes in plants. The method teaches to transiently express in susceptible plants large numbers of R-gene homologs or non-host inducible genes isolated from non-host resistant plants. These plants can be screened for either disease resistance or ability to respond with a hypersensitive response to pathogen-elicitor subjection. The invention also reports several R-genes and non-host inducible genes that have been successfully isolated using the described method. These R-genes trigger a hypersensitive response in tobacco that is dependent on the presence of the ubiquitous P. infestans elicitor INF1. The presented R-genes are predicted to be both the first R-genes isolated that confer resistance against P. infestans and the first R-genes involved in non-host resistance.

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